

Physics 137A Section 1: Problem Set #2
Due: 5PM Friday Feb 7 in 2nd floor LeConte-Birge Cross-Over

Suggested Reading for this Week:

- This material is covered in Griffiths Chapter 1
- Another view of the same material can be found in Bransden and Joachain sections 2.1 through 2.3

Homework Problems:

1. Griffiths Problem 1.12
2. Griffiths Problem 2.4
3. Griffiths Problem 2.5
4. Griffiths Problem 2.6
5. Griffiths Problem 2.7
6. Griffiths Problem 2.8
7. Griffiths Problem 2.9 Note: this problem illustrates a very important concept: the “collapse of the wave function.” The act of *measuring* the energy forces the wave function into an eigenstate of energy. If you are interested in the philosophical implications of this, take a look at section A.3 of Griffiths.
8. Griffiths Problem 2.10